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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/554,020	10/21/2005	Ali Parsa	PHUS030093	7854
65913	7590	10/28/2008	EXAMINER	
NXP, B.V.			TRAN, KHAI	
NXP INTELLECTUAL PROPERTY DEPARTMENT				
M/S41-SJ			ART UNIT	PAPER NUMBER
1109 MCKAY DRIVE			2611	
SAN JOSE, CA 95131				
		NOTIFICATION DATE	DELIVERY MODE	
		10/28/2008	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

ip.department.us@nxp.com

Office Action Summary	Application No.	Applicant(s)	
	10/554,020	PARSA ET AL.	
	Examiner	Art Unit	
	KHAI TRAN	2611	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 13 October 2008.

2a) This action is **FINAL**. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-18 is/are pending in the application.

4a) Of the above claim(s) 16-18 is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) _____ is/are rejected.

7) Claim(s) 1,3,6,8 and 14 is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:

1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date 10/21/2005.

4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ .

5) Notice of Informal Patent Application

6) Other: _____.

DETAILED ACTION

Election/Restrictions

1. Applicant's election without traverse of group I of claims 1-15 in the reply filed on 1/13/2008 is acknowledged. Claims 16-18 have been cancelled without prejudice.

Conclusion

2. This application is in condition for allowance except for the following formal matters:

In the claims:

Claim 1, line 12, the term "the output signal" should be changed to -- the output signal of the quadrature modulator--.

Claim 3, line 2, the term "the output signal" should be changed to -- the output signal of the quadrature modulator--.

Claim 6, line 7, the term "feedthrough" should be --feed through--; as set forth in claims 8; line 8, the term "the in-phase modulation branch input" should be changed to - - the in-phase modulation branch input of the quadrature modulator--.

Claim 8, line 5, the term "Is" should be changed to --is--.

Claim 14, line 12, "the output signal" should be changed to -- the output signal of the quadrature modulator--.

Prosecution on the merits is closed in accordance with the practice under *Ex parte Quayle*, 25 USPQ 74, 453 O.G. 213, (Comm'r Pat. 1935).

A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Ishii (U.S. Pat. 6,185,260) discloses a radio communication device using quadrature modulation-demodulation circuit.

Huang et al (U.S. Pat. 6,771,709) disclose a system and method for direct transmitter self-calibration.

Yochem (US 2002/0137487) discloses a method for automatic carrier suppression tuning of a wireless communication device.

Allowable Subject Matter

4. The following is a statement of reasons for the indication of allowable subject matter: none of the prior art discloses a quadrature modulator comprising: (e) an envelope detector for detecting an output signal of the modulator and providing a signal representative of the amplitude of the output signal; f) a band pass filter for filtering the amplitude signal; and g) a signal strength indicator circuit for measuring the strength of the filtered amplitude signal, the indicator circuit providing a compensation signal for adjusting the phase shift of the local oscillator and the dc offsets and base band gains of the in-phase and quadrature base band signals as recited in claims 1, 14; and b) measuring the level of a local oscillator (LO) feedthrough in an output signal of the modulator and in response adjusting base band dc offset voltages to minimize the LO feedthrough; d) measuring the level of an undesired upper sideband frequency

component in the output signal and in response adjusting base band gains the in-phase and quadrature modulation branches and a LO phase error to minimize the undesired sideband as recited in claim 8.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to KHAI TRAN whose telephone number is (571) 272-3019. The examiner can normally be reached on 7:00AM - 4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Payne can be reached on (571) 272-3024. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/KHAI TRAN/
Primary Examiner, Art Unit 2611

October 22, 2008

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Art Unit: 2611

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